

SWALLOW.

A NEW
ALMANACK

for the Year of our

LORD GOD

1688.

Being the Universe on Earth
and from the Worlds Creation,
5691.

Calculated properly for the famous
University and Town of Cambridge, where
the Pole Artick is elevated 52 deg.
12 min. above the Horizon.

And may serve indifferently for any other
place of this Kingdom.

Omnia falce metit tempus.

Printed by *John Sturges* Printer to
the University, 1688.

The vulgar Notes and moveable Leasts for this

Year 1688. in both Accounts, viz.

English.

Forreign.

	17	The Golden Number	17
	17	The Dominical Letter	C
	7	The Epact	27
	17	The Cycle of the Sun	17
Feb.	26	Shrove Sunday	Febr. 29
April	15	Easter day	April 18
May	24	Ascension day	May 27
June	3	Whitsunday	June 6
June	10	Trinity Sunday	June 13
Decemb.	2	Advent Sunday	Novemb. 28

The Anatomy of Mans Body.



- ♈ Aries Head and Face ♎ Libra Reins and Loyns
 ♉ Taurus Neck & Throat ♏ Scorpio Secret members
 ♊ Gemini Arms and Shoul. ♐ Sagittarius the Thighs
 ♋ Cancer Breast & Stom. ♑ Capricornus the Knees
 ♌ Leo Heart and Bzck ♒ Aquarius the Legs
 ♍ Virgo Bowels and Belly ♓ Pisces the Feet.

A

Swallow 1688.

A Table of the Terms with their Returns,

<p>Michaelmas Term begins January 23, and ends February 13, and hath 4 returns, <i>viz.</i></p>	<p>Octab. Hilar. Jan. 20</p>
	<p>Quind. Hilar. Jan. 27</p>
	<p>Craft. Purif. Febr. 3</p>
	<p>Octab. Purif. Febr. 9</p>
<p>Easter Term begins May 2, ends May 28, and hath 5 returns, <i>viz.</i></p>	<p>Quind. Pasch. Apr. 30</p>
	<p>Tres Pasch. May 7</p>
	<p>Mens. Pasch. May 14</p>
	<p>Quinq. Pasch. May 21</p>
<p>Trinity Term begins June 15, and ends July 4, and hath 4 returns, <i>viz.</i></p>	<p>Craft. Ascen. May 25</p>
	<p>Craft. Trin. June 11</p>
	<p>Octab. Trin. June 18</p>
	<p>Quind. Trin. June 25</p>
<p>Christmas Term begins October 23, ends November 28, and hath 6 returns, <i>viz.</i></p>	<p>Tres Trin. July 2</p>
	<p>Tres Mich. Octob. 10</p>
	<p>Mens. Mich. Octob. 17</p>
	<p>Craft. anim. Nov. 2</p>
	<p>Craft. Mart. Nov. 12</p>
	<p>Octab. Mart. Nov. 19</p>
	<p>Quind. Mart. Nov. 26</p>

Note that the Exchequer openeth 8 days before any Term begins, except the Term of Trinity, in which it openeth but 4 days before.

Note also that the bright Planet *Venus*, will be our glorious Morning Star from the beginning of the year, till the 24 day of *August*; and then making her Conjunction with the Sun, She becomes Occidental and our glorious Evening Star to the end of the year.

January hath xxxi days.

Full moon the 7 day, 13 min. past 1 after noon.
 Last quarter the 15 day, 51 min. past 4 after noon.
 New moon the 22 day, 13 min. past 10 at night.
 First quarter the 29 day, 58 min. past noon.

1	a	Conception	21	22	Taur.	8	
2	b	Octab Steph.	22	24		21	The month begins indif- ferently mild considering the season.
3	c	Octab. John.	23	25	Gem.	5	
4	d	Octab. Innoc.	24	26		18	
5	e	Simeon	25	27	Canc.	1	
6	f	Epiphany	26	28		14	
7	g	Jultan	27	30		26	
8	a	1 aft. Epiph.	28	31	Leo	9	
9	b	Agapete	29	32		21	
10	c	Sol. Equinox	0	33	Virgo	4	About the middle ex- pect frost with snow.
11	d	Pygmas	1	34		15	
12	e	Satyrus	2	35		27	
13	f	Hilary Bish.	3	36	Libra	9	
14	g	Felix	4	37		21	
15	a	2 aft. Epiph.	5	38	Scorp.	3	
16	b	Mazellus	6	39		15	
17	c	Anthony	7	41		27	
18	d	Basica	8	42	Sagit.	10	Very cold frosty weather with much snow.
19	e	Montion	9	42		23	
20	f	Octab. Hilar.	10	43	Capr.	7	
21	g	Agnes	11	44		22	
22	a	3 aft. Epiph.	12	45	Aquar.	6	
23	b	Leodeg.	13	46		21	
24	c	Timothy	14	47	Pisces	6	
25	d	St. Val.	15	48		21	
26	e	Polycarpus	16	49	Aries	6	Cold aba- ted towards the end.
27	f	Quind. Hilar.	17	49		20	
28	g	Valerius	18	50	Taur.	4	
29	a	4 aft. Epiph.	19	51		18	
30	b	St. Andrew	20	52	Gem.	2	
31	c	Virgilus	21	52		15	

February hath xxix days.

Full moon the 6 day, 5 min. past 7 in the morning.
 Last quarter the 14 day, 31 min. past 10 before noon.
 New moon the 21 day, 25 min. past 8 before noon.
 First quarter the 28 day, 40 min. past 12 in the morn.

M.D.	W.D.	Festival days with terms.	☉ place d. m.	Moons place.	Inclination of the Air.
1	d	Bridget fast	22 53	Gem. 28	
2	e		23 54	Canc. 10	Cold weather with much snow.
3	f	Craft. Purif.	24 55		
4	g	Gilbert	25 55	Leo 5	
5		5 aft. Epiph.	26 56		
6	h		27 56	Virgo 0	
7	c	Zachary	28 57		
8	d	Salom	29 57		Fine mild weather now and pleasant.
9	e	Sun in Pilce	☉ 58	Libr. 5	
10	f	Scholastica	1 58		
11	g	Euphrosina	2 58		
12	h	Agathe	3 59	Scorp. 11	
13	c	Valentine	4 59		
14	d	Faustine	5 59	Sagit. 6	Very good seasonable weather with frost.
15	e	Julian. Virg.	7 0		
16	f	Polycron	8 0	Capr. 2	
17	g	Concordia	9 0		
18	h		10 0	Aquar. 0	
19	c		11 0		
20	d	Agathe	12 0	Pisces 0	
21	e	70 Martyrs	13 1		Towards the end, very windy but not very cold.
22	f	Cathedr. Pet.	14 1	Aries 0	
23	g	Mercurius fast	15 1		
24	h	S. Mathew	16 1	Taur. 0	
25	c	S. Paul	17 0		
26	d	Shrove Sunda	18 0		
27	e	Fortuna	19 0	Gem. 12	
28	f	Shrovetuesd.	20 0		A 3
29	g	Ash wednesd.	21 0	Canc. 8	

Full moon the 7 day, 59 min. past 1 in the morn.
 Last quarter the 15 day, 15 min. past 1 in the morn.
 New moon the 21 day, 16 min. past 5 after noon.
 First quarter the 28 day, 30 min. past 2 after noon.

1	D	David Bish.	12	0	Canc.	20	
2	E	Chad Bish.	12	59	Leo	2	Temperuous but not much frost.
3	F	Eustas	23	59		15	
4		1 Sun. in Lent.	24	59		27	
5	A	Eusebius	25	58	Virgo	9	
6	B	Frederick	26	58		20	
7			27	57	Libr.	2	
8	D	Egyptian	28	57		14	
9	E	40 Martyrs	29	56		25	
10	F		30	56	Scorp.	8	Most and not very cold.
11		2 Sun. in Lent	1	55		20	
12	A	Gregory	2	54	Sagit.	2	
13	B	Ernestus	3	54		15	
14	C	Eutychus	4	53		28	
15	D	Longinus	5	52	Capr.	11	
16	E	Boniface	6	52		24	
17	F	Gertrude	7	51	Aquar.	9	Windy and cold about this time.
18		3 Sun. in Lent	8	50		23	
19	A	Joseph	9	49	Pisc.	8	
20	B	Mildred	10	48		23	
21	C	Benedict	11	47	Aries	8	
22	D	Paulinus	12	46		24	
23	E	Theodore	13	45	Taur.	8	
24	F	Quintine fast	14	44		23	
25			15	43	Gem.	7	Cloudy dark weather with rain.
26	A	Cassius	16	42		21	
27	B	Erchthald	17	40	Canc.	4	
28	C	Gideon	18	39		17	
29	D	Eustachius	19	38		29	
30	E	Guido	20	37	Leo	11	
31	F	Salbina	21	35		24	

April hath xxx days.

Full moon the 5 day, 5 min. past 6 at night.
 Last quare the 13 day, 5 min. past noon.
 New moon the 20 day, 28 min. past 3 in the morn.
 First quarter the 27 day, 15 min. past 6 before noon.

1	a	5 Sun. in Lent	22	34	Virgo	6	
2	a	Mary Egypt	23	33		17	Misty and something cold.
3	h	Christian	24	31		19	
4	c	Ambrose	25	30	Libra	11	
5	d	Vincent	26	29		23	
6	e	Stas	27	27	Scorp.	5	
7	f	Celestine	28	25		17	
8		Palm Sunday	29	23		29	
9	a	Sund. in Lent	0	22	Sagit.	12	Windy but warmer with gentle showers.
10	b	Ezechiel	1	20		25	
11	c	Leo P.	2	18	Capr.	7	
12	d	Julius	3	17		21	
13	e	Good Friday	4	15	Aquar.	4	
14	f	Elbertus	5	13		18	
15		Easter	6	11	Pisces	2	
16	a	Isidore	7	9		17	
17	b	Anicetus	8	8	Aries	2	Very good seasonable weather.
18	c	Spollin.	9	6		17	
19	d	Timothy	10	4	Taur.	2	
20	e	Sulpitius	11	2		17	
21	f	Emmanuel	12	0	Gem.	1	
22		Low Sunday	12	58		15	
23	a	S. George	13	56		29	
24	b	Albertus	14	53	Canc.	13	Windy with rain or hail and thunder.
25	c	Mark	15	51		25	
26	d	Cletus	16	49	Leo	8	
27	e	Nastaf.	17	47		21	
28	f	Vitalis	18	45	Virg.	2	
29		2 after Easter	19	43		14	
30	a	Quind. Past.	20	40		26	

Full moon the 5 day, 37 min. past 9 before noon.
 Last quarter the 12 day, 57 min. past 6 at night.
 New moon the 19 day, 11 min. past 4 in the morn.
 First quarter the 26 day, 42 min. past 10 at night.

1	b		21	38	Libra	8	
2	c		22	36		20	Fine tempe-
3	d	Invent. Cruch	23	33	Scorp.	2	rate and se-
4	e	Martian	24	31		14	rene air, with
5	f	Gothard	25	28		27	gentle gales
6		3 after Easter	26	26	Sagit.	9	of wind.
7	a	Tres Pasch.	27	24		21	
8	b	Appar Mic.	28	21	Capr.	4	
9	c	Globe	29	19		18	
10	d		0 II	16	Aquar.	1	
11	e	Anthony	1	13		14	
12	f	Becheley	2	11		28	Cloudy and
13		4 after Easter	3	9	Pisces	12	warm with
14	a	Mens. Pasch.	4	6		27	some rain.
15	b	Sophia	5	3	Aries	11	
16	c	Peregrin	6	1		26	
17	d	Modocus	6	58	Taur.	10	
18	e	Bernardine	7	55		25	
19	f	Dunstan	8	53	Gem.	9	Hot weather
20		Rogation Sun.	9	50		24	and windy.
21	a	Quinq. Pasch.	10	47	Canc.	7	
22	b	Desider. Mar.	11	45		21	
23	c	Trans. Fran.	12	42	Leo	4	
24	d		13	39		16	
25	e	Craft. Ascen.	14	36		28	
26	f	Edward	15	34	Virgo	10	Towards the
27		6 after Easter	16	31		22	end tempe-
28	a		17	28	Libra	4	stuous with
29	b		18	25		16	thunder.
30	c	Wigand	19	22		28	
31	d	Petruscl.	20	19	Scorp.	9	

June last - my days.

Full moon the 3 day, 57 min. past 9 at night.
 Last quarter the 10 day, 47 min. past 5 after noon.
 New moon the 17 day, 6 min. past 8 at night.
 First quarter the 25 day, 35 min. past 3 afternoon.

1	e	Alcomede	21	17	Scorp.	22	
2	f	Marcellus	22	14	Sagit.	5	Very hot and dry at the begin- ing.
3	b	Whit Sunday	23	11		18	
4	a	Petroc. Con.	24	8	Capr.	1	
5	b	Boniface B.	25	5		14	
6	c	Luther's	26	2		28	
7	d	Paul Ep.	26	59	Aquar.	11	
8	e	Medard	27	56		25	
9	f	Transf.	28	53	Pisces	9	
10	g	Trinity Sunday	29	51		23	Turbulent with thun- der.
11	a	S. Barnabas	0	48	Aries	7	
12	b	Blandina	1	45		21	
13	c	Cyprian	2	42	Taur.	6	
14	d	Corpus Christi	3	39		20	
15	e	John Baptist	4	36	Gem.	4	
16	f	Tr. Richard.	5	33		18	
17	g	1 after Trin.	6	30	Canc.	2	Windy hot weather with rain.
18	a	Octab. Trin.	7	27		15	
19	b	Gerbase	8	24		29	
20	c	Tr. Edward.	9	21	Leo	12	
21	d	Walburge. V.	10	18		24	
22	e	Alban	11	15	Virg.	6	
23	f	Basil. fast	12	12		18	
24	g	S. John Bapt.	13	9	Libra	0	
25	a	Quind. Trin.	14	6		12	Very good seasonable weather toward the end.
26	b	Jeremias	15	3		24	
27	c	7 Sleepers	16	1	Scorp.	6	
28	d	Leo Bish. fast	16	58		18	
29	e	Peter Apo	17	55	Sagit.	0	
30	f	Com. S. Paul	18	52		13	

Full moon the 2 day, 39 min. past 8 in the morn.
 Last quarter the 10 day, 11 min. past 2 in the morn.
 New moon the 17 day, 49 min. past 10 in the morn.
 First quarter the 25 day, 35 min. past 12 in the morn.

1	a	3 after Trin.	19	49	Sagit.	20	
2	a	Tres Trin.	20	46	Capr.	9	Very hot
3	b	Cornelius	21	43		23	with thun-
4	c	Leon ends	22	40	Aquar.	7	der.
5	d	Anselm	23	38		21	
6	e	Hector	24	35	Pisces	6	
7	f	Demetrius	25	32		20	
8	a	4 after Trin.	26	29	Aries	4	Hot sultry
9	a	Cyrillus	27	26		18	weather
10	h	7 Beth. M.	28	23	Taur.	2	with very
11	c	Plus	29	21		16	hasty sho-
12	d	Sun in Leo	0	18	Gem.	0	wers.
13	e	Margaret	1	15		14	
14	f	Bonavent.	2	12		27	
15	a	5 after Trin.	3	9	Canc.	11	
16	a	Hilarine	4	7		24	
17	b	Alexius	5	4	Leo	7	This month
18	c	Arnulph B.	6	1		20	is generally
19	d	John B.	6	59	Virg.	2	hot inclining
20	e	Margaret	7	56		14	to moisture.
21	f	Daniel	8	53		26	
22	a	6 after Trin.	9	51	Libra	8	
23	a	Apolline B.	10	48		20	
24	b	Christ. V. f.	11	46	Scorp.	2	Toward the
25	c	John B.	12	43		14	end a very
26	d	Anna	13	40		26	turbulent air
27	e	Martha	14	38	Sagit.	8	with thunder.
28	f	Anthaleon	15	35		21	
29	a	7 after Trin.	16	33	Capr.	4	
30	a	Abdon	17	31		17	
31	b	German	18	28	Aquar.	1	

August hath xxxi days

Full moon the 1 day, 50 min. past 5 afternoon.
 Last quarter the 8 day, 46 min. past 8 in the morn.
 New moon the 15 day, 11 min. past 9 at night.
 First quarter the 24 day, 35 min. past 12 in the morn.
 Full moon the 31 day, 27 min. past 2 in the morn.

1	c	Lammas day	19	26	Aquar.	16	
2	d	Stephen M.	20	23	Pisces	0	Good weather at the beginning and tempe- rate as to heat.
3	e	Invent. Steph.	21	21		15	
4	f	Dominick	22	19	Aries	0	
5	g	8 after Trin.	23	10		14	
6	a	Trans. Christi	24	14		29	
7	b	Donatus	25	12	Taur.	13	
8	c	Cyrillus	26	10		27	
9	d	Romanus	27	7	Gem.	10	
10	e	Laurence	28	5		24	
11	f	Gilbert	29	3	Canc.	7	Windy with storms of hail.
12	g	Sun in Virgo	ony	1		20	
13	a	Hyppolite	0	59	Leo	3	
14	b	Ensbrius	1	57		16	
15	c	Assumpt. Mary	2	55		28	
16	d	Roch	3	53	Virgo	10	
17	e	Hammes	4	51		22	
18	f	Helena	5	49	Libra	4	Very hot now, and tempestuous with thunder.
19	g	10 after Trin.	6	47		16	
20	a	Bernard	7	45		28	
21	b	Athanasius	8	43	Scorp.	10	
22	c	Symphor	9	41		22	
23	d	Zacheus fast	10	40	Sagit.	4	
24	e	S. Bartholem.	11	38		16	
25	f	Leobots King	12	36		29	
26	g	11 after Trin.	13	34	Capr.	12	Towards the end hot and dry.
27	a	Dog days end	14	33		25	
28	b	Augustine	15	31	Aquar.	10	
29	c	Decol. J. Bapt.	16	29		24	
30	d	Felix	17	28	Pisces	9	
31	e	Anthbur. V.	18	26		24	

September hath xxx days

Last quarter the 6 day, 29 min. past 4 after noon.
 New moon the 14 day, 50 min. past noon.
 First quarter the 22 day, 43 min. past 3 after noon.
 Full moon the 29 day, 1 min. past 11 before noon.

1	c	Stiles Abbot	19	25	Aries	9	
2	o	12 after Trin.	20	23		24	Indifferently
3	a	Euphem.	21	20	Taur.	9	hot for the
4	b	Theodoze	22	21		23	season.
5	c	Zachary	23	19	Gem.	7	
6	d	Magnus	24	18		21	
7	e	Regina	25	17	Canc.	4	
8	f	Nat. of Mary	26	15		17	
9	o	13 aft. Trin.	27	14	Leo	0	High winds
10	a	Boothenes	28	13		13	and not
11	b	Chechald	29	12		25	much wet.
12	c	Sancti 7	0	11	Virgo	7	
13	d	Imatus	1	10		19	
14	e	Exalt. Crucis	2	9	Libra	1	
15	f	Piscomed.	3	8		13	
16	o	14 after Trin.	4	7		25	
17	a	Lambert	5	6	Scorp.	7	Tempestuous
18	b	Ferdolus	6	5		19	with storms
19	c	Ember week	7	4	Sagit.	1	of hail.
20	d	Fausta	8	3		13	
21	e	S. Matthew	9	2		25	
22	f	Maurice	10	2	Capr.	7	
23	o	15 after Trin.	11	1		20	
24	a	Rupert	12	0	Aquar.	4	Very windy
25	b	Cleophas	13	0		18	with rain
26	c	Cyprian	13	59	Pisces	2	and some-
27	d	Judith	14	59		17	thing cold.
28	e	Wenceslaus	15	58	Aries	2	
29	f		16	58		17	
30	o	16 after Trin.	17	57	Taur.	2	

October hath xxvi days.

Last quarter the 6 day, 57 min. past 4 in the morn.
 New moon the 14 day, 41 min. past 6 in the morn.
 First quarter the 22 day, at 5 in the morning.
 Full moon the 28 day, 13 min. past 8 at night.

1	a	Remigius	18	57	Taur.	17	
2	b	Leodegar	19	56	Gem.	2	Cloudy and cold at the begining.
3	c	Simplicius	20	56		17	
4	d	Francis	21	56	Canc.	0	
5	e	Faith	22	55		14	
6	f	Spes	23	55		27	
7		17 after Trin.	24	55	Leo	10	
8	a	Delagis	25	55		22	
9	b	Dionysius	26	55	Virgo	4	A more clear air now and pleasant.
10	c	Gideon	27	55		16	
11	d	Burchard	28	55		28	
12	e	Willfride V.	29	55	Libra	10	
13	f	Scottus	0	55		22	
14			1	55	Scorp.	4	
15	a	Hedwig.	2	55		16	
16	b	Gallus	3	55		28	
17	c	Florent.	4	55	Sagitt.	10	Windy with cold rain.
18	d		5	55		22	
19	e	Bridesolde	6	55	Capr.	4	
20	f	Tres Mich.	7	56		17	
21		19 after Trin.	8	56	Aquar.	0	
22	a	Cozula	9	56		13	
23	b		10	56		27	Dark wea- ther and cold, toward the end frosey.
24	c	Salome	11	57	Pisces	11	
25	d	Crispine	12	57		26	
26	e	Amandus	13	58	Aries	10	
27	f	Mens. mich. fa.	14	58		25	
28			15	59	Taur.	11	
29	a	Parcellus	16	59		26	
30	b	German	18	0	Gem.	11	
31	c	Wolfgang	19	0		25	

November hath xxx days.

Last quarter the 4 day, 52 min. past 2 after noon.
 New moon the 13 day, 55 min. past 12 in the morn.
 First quarter the 20 day, 9 min. past 4 after noon.
 Full moon the 27 day, 6 min. past 7 in the morn.

1	D	All Saints	20	I	Canc.	9	
2	E	All Souls	21	1		23	
3	F	Craft Anim.	22	2	Leo	6	Not very
4	G	21 after Trin.	23	3		19	cold consi-
5	A	Powder, Joe	24	4	Vingo	1	dering the
6	B	Leonard	25	4		13	season.
7	C	Willibald	26	5		25	
8	D	Claudian	27	6	Libra	7	
9	E	Theodore	28	7		19	
10	F	Eriphon	29	8	Scorp.	0	
11	G	Son in Sagit.	01	8		12	Cold increa-
12	A	Craft. Mart.	1	9		24	ses now.
13	B	Eugenia	2	10	Sagit.	7	
14	C	Frederic.	3	11		19	
15	D	Leopold	4	12	Capr.	1	
16	E	Edmon. A.B.	5	13		14	
17	F	Hugo	6	14		27	Frosty with
18	G	23 after Trin.	7	15	Aquar.	10	snow.
19	A	Olab. Mart.	8	16		24	
20	B	Edmond K.	9	17	Pisces	7	
21	C	Oblat. Mary	10	18		21	
22	D	Cicely Virg.	11	19	Aries	5	
23	E	Clement	12	20		20	
24	F	Chrysgon.	13	21	Taur.	4	Dark gloe-
25	G	24 after Trin.	14	22		19	my weather
26	A	Quind. Mart.	15	24	Gem.	4	and windy
27	B	Agricola	16	25		19	with cold
28	C		17	26	Canc.	3	rain or snow.
29	D	Saturnine	18	27		17	
30	E		19	28	Leo	1	

December hath xxxi days.

Last quarter the 4 day, 16 min. past 6 at night.

New moon the 12 day, 59 min. past 6 at night.

First quarter the 20 day, 3 min. past 1 in the morn.

Full moon the 26 day, 43 min. past 7 at night.

1	f	Longinus	20	29	Leo	14	
2	o	Advent Sun	21	31		27	Very good
3	a	Cassianus	22	32	Virgo	9	seasonable
4	h	Barbara	23	33		21	weather.
5	t	Sabine	24	34	Libra	3	
6	d	Nicholas	25	36		15	
7	e	Agathon	26	37		27	
8	f	Concep. Mary	27	38	Scorp.	9	Cold raw
9	o	2 sun. in Adv.	28	39		21	misty wea-
10	a	Willelades	29	41	Sagit.	3	ther.
11	h	Sun in Capr.	o	42		15	
12	t	Valerius	1	43		28	
13	d	Luce Virg.	2	44	Capr.	11	
14	e	Piccasus	3	46		24	Frosty now
15	f	Abraham	4	47	Aquar.	7	and very
16	o	3 sun. in Adv.	5	48		22	cold.
17	a	Lazarus	6	50	Pisces	4	
18	h	Christopher	7	51		18	
19	c	Ember Week	8	52	Aries	9	
20	d	Amon fast	9	54		16	High winds
21	e	S. Thomas	10	55	Taur.	0	and cold.
22	f	30 Partyas	11	56		14	
23	o	4 sun. in Adv.	12	57		28	
24	a	S. d. & Ch. f. f.	13	59	Gem.	13	
25	h	Nat. Christ	15	0		27	A thick
26	t	S. Stephen	16	1	Canc.	11	gloomy air
27	d	S. John Evan.	17	3		25	and indiffe-
28	e	St. Andrew	18	4	Leo	9	rently cold.
29	f	Jonathon	19	5		22	
30	o	after Christ.	20	6	Virgo	5	
31	a	Sylbester	21	8		17	

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A Regal Table in a more exact manner.

The Year, Month, and Day, (accounting the Year to begin Jan. 1.) whereon every K. and Q. of Eng. since the Conq. began their reign. The number of Years, Months, & Days, that every K. and Q. reigned 28 da. to a mon. The num. of y. expired in this y. since they began to reign: as also since they ended

K. W. Conq.	1066	Octob. 14	20	y	11	m	22	d	622	
W. Rufus	1087	Sept. 9	12	y	11	m	18	d	601	K. W. Conq.
Henry 1	1100	August 1	35	y	4	m	11	d	588	W. Rufus
Stephen	1135	Decem. 2	18	y	11	m	18	d	553	Henry 1
Henry 2	1154	Octob. 25	34	y	9	m	2	d	534	Stephen
Richard 1	1185	July 6	9	y	9	m	0	d	459	Henry 2
John	1199	April 6	17	y	7	m	0	d	489	Richard 1
Henry 3	1216	Octob. 19	56	y	1	m	0	d	472	John
Edward 1	1272	Nov. 16	34	y	8	m	6	d	416	Henry 3
Edward 2	1307	July 7	19	y	7	m	5	d	381	Edward 1
Edward 3	1327	Jan. 25	50	y	5	m	7	d	361	Edward 2
Richard 2	1377	June 21	22	y	3	m	14	d	311	Edward 3
Henry 4	1399	Sept. 29	13	y	6	m	3	d	289	Richard 2
Henry 5	1413	March 20	9	y	5	m	24	d	275	Henry 4
Henry 6	1422	Aug. 31	38	y	6	m	16	d	266	Henry 5
Edward 4	1461	March 4	22	y	1	m	8	d	227	Henry 6
Edward 5	1483	April 9	0	y	2	m	18	d	205	Edward 4
Richard 3	1483	June 22	2	y	2	m	5	d	205	Edward 5
Henry 7	1485	Aug. 22	23	y	10	m	24	d	203	Richard 3
Henry 8	1509	April 22	37	y	10	m	2	d	179	Henry 7
Edward 6	1547	Jan. 28	6	y	5	m	19	d	141	Henry 8
Q. Mary	1553	July 6	5	y	4	m	22	d	135	Edward 6
Q. Elizab.	1558	Nov. 17	44	y	4	m	15	d	130	Q. Mary
James 1	1603	March 24	22	y	0	m	3	d	85	Q. Elizab.
Charles 1	1625	March 27	22	y	10	m	3	d	63	James 1
Charles 2	1649	Jan. 30	36	y	0	m	7	d	39	Charles 1
James 2	1685	Febr. 6	Long live the King.						3	Charles 2

The use of the Table in Example.

King Henry 8 began his Reign in the year of Christ 1509, April 22 He Reigned 37 years, 10 months, and 2 days. It is since he began his Reign 179 years compleat the 22 of April this year 1688. Now to know the time since the end of his Reign, before his name standing on the right hand, you shall there find 141 years since he died, Jan. 28. And so of the rest.

SWALL.

SWALLOW.

The latter part of this

ALMANACK

for the Year of our

LORD GOD

1688.

Being the Bissextile or Leap-
year, and from the Conquest of
England by William Duke of
Normandy 622 years.

Wherein is contained an account of the
Eclipses, the time of the Sun's entrance
into the four Cardinal Signs, A most natu-
ral and rational account of *Astrology*; and
likewise Tables of Weights and Measures,
A Table of Timber measure, with Rules
for measuring Boards and Timber, and
Tables for Purchasing explained, with other
profitable and delightfull things.

*Poma dat Autumnus: formosa est messibus Aestas:
Ver praebeat flores: Igne levatur Hyems.*

CAMBRIDGE,

Printed by John Hayes, Printer to the
University, 1688.

Snallow 1688.

Of the Eclipses this Year.

Four times this Year will the Luminaries suffer Eclipses, twice the Sun, and as often the Moon, which will happen in the order following.

The first Eclipse will be of the Moon, on the 5th day of April, at 6 of the Clock in the evening, it happens in 26 degrees of *Libra*, and will be a great Eclipse, but invifible to us, becaufe at that time the Moon will be under our Horizon.

The second will be an Eclipse of the Sun, on the 20th day of April, at 1 of the Clock in the morning; it happens in 11 degrees of *Taurus*; and will be invifible to us, but may be feen almoft in the meridian of our Antipodes.

The third Eclipse will be of the Moon, on the 29th day of September, at about 10 of the Clock in the morning; it happens in 17 degrees of *Aries*, but will be invifible to us.

The fourth will be an Eclipse of the Sun, on the 14th day of October, about 7 of the Clock in the morning; it happens in 2 degrees of the Coelestial *Scorpion*, and the latter part of it may be feen in *England*.

On the 7th day of November there will happen a Conjunction of the two malevolents *Saturn* and *Mars*, in one degree of *Scorpio*.

The

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*The Suns entrance into the four Cardinal Signs
this Year.*

He enters γ , *March* the 9th day, 6 minutes past 3 after-noon, and then begins our Spring Quarter.

He enters δ , *June* the 10th day, 53 minutes past 3 afternoon, and then begins our Summer Quarter.

He enters ζ , *September* the 12th day, 12 minutes past 7 beforenoon, and then begins Autumn.

He enters ψ , *December* the 10th day, 25 minutes past 7 at night, and then begins our Winter Quarter.

Although the approach, and absence of the Sun may seem to be the sole cause of Summer and Winter, &c. yet nevertheless there is something to be attributed to the quality of the Signs, or parts of the Heavens that the Sun is in; for it appears to Travellers, that the Sun in the same Signs causeth like effects to them beyond the Equinoctial, that at the same he produceth here to us, the fairest or the foulest weather happening to both at the same instant: for the air is most clear, and without rain under the burning Zone, when the Sun is farthest off, and contrariwise, there is most rain snow and mists, when the Sun is nearest, as in *Peru* the Sun approaching near the Tropick of *Capricorn*, then begins it to rain and snow, and their Rivers swell from *October* to *December*; then after that, the Sun retiring from ψ , whenas his beams reflect directly upon the heads of them at *Peru*, then is the violence of their Waters great, then is the time of rain, snow, &c. which may satisfie the most obstinate, that in all Places, the same parts of Heaven keep still the same Qualities.

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A most natural and rational account of Astrology.

Astrology (as it is defined by some) is the language or influence of the Stars, by whose motions and various configurations is manifested and foreseen the intents of Gods Providence in the several mutations that happen in the World in general, and more particularly towards Man.

The subjects of Astrology are the four principle Qualities, (as they are derived and do proceed from the first principles of the universe) viz. Heat, Cold, Drought, and Moisture, and all things that are compounded of them.

The use and end of Astrology, is to discover and make manifest the causes of those mutations and accidents that happen in general, as Dearth, Plenty, &c.

The parts of Astrology are chiefly two, viz. Theorick and Practick;

The Theorick part (which is more properly called Astronomy) is that which by certain Mathematical Demonstrations and Figures, represents to us the various Motions, Places, Magnitudes, Distances, and Proportions one to another, with all other Phenomena, or appearance of the Stars.

The Practick part, is that which from the knowledge of the aforesaid Motions, Configurations, &c. of the Stars, judgeth of their Effects; and this is that which most properly of it self is called Astrology, or the Influence of the Stars.

Neither can it be void of a third division, and that is Physical, by which is demonstrated their occult Virtues and Natures, and by what means they come to have such various Motions, Distances, Passions, &c. from whence such variety of Effects do proceed, as also hereby is shewed by what means they differ in quality among

among themselves, by which means they produce most forcible Effects upon some particular Objects.

Of the Stars some are termed Fixed, and some Wandering or Planets.

The Fixed Stars are those that are placed in their several Constellations or Asterisms, having equal distances, at all times one from another: their Latitude being always the same, and by the Anticipation of the Equinoxes, seem to have only a slow motion in Longitude, viz. 50 seconds in a Year, which is only 1 degree 23' 20" in 100 Years.

A Constellation is a certain number of Fixed Stars collected into a certain form, either for that the Stars in those places are of the nature of that Creature in the form of which they are placed, or because they only make the form of such a Creature.

Of these Constellations there are three divisions, viz. Zodiacal, Northern, and Southern Constellations.

The most principal are those which are termed Zodiacal, because they are placed upon that great Circle of the Sphere so called.

And these are called Signs because from them is measured in Longitude the places of all the Stars, whether Fixed or Wandering, hence any Star is said to be in such a degree, &c. of such a Sign.

The Northern and Southern Constellations are so termed, because they are placed either North or South of those in the Zodiack, and the further North or South they decline or are placed from this Circle, they are of the less consideration in Astrological Judgements.

And as the difference is in the several Constellations themselves, so is it likewise in the fixed Stars therein placed, and this difference ariseth either in respect of Magnitude or Place.

In respect of Magnitude, the Antients have distinguished them into Six, viz. Stars of the first Magnitude,

second magnitude, third magnitude, fourth magnitude, fifth magnitude, sixth magnitude.

In respect of Place, those that are placed in the Zodiack, and nearest to the middle thereof (which is a Line called, *Via Solis*, and the Ecliptick) are of Chiefest Signification, yet not rejecting such as are vertical in position, in respect of time and place.

The Wandring Stars are those commonly termed Planets *ab errando*, from wandring to and fro in their several Spheres in which they were placed at their creation.

They are said to be wandring in respect of their motion, either in Longitude or Latitude; in Longitude sometimes they seem (to us) to move direct or forward, sometimes Retrograde or backward, sometimes Stationary or move not at all, sometimes they are swifter in motion, sometimes slower, according to their distance from the Earth. They are said likewise to wander in respect of Latitude, for sometimes they are more northward of the Ecliptick, sometimes more southward, and sometimes they are just in the Ecliptick, and so have no Latitude at all.

And as this difference of motion is proper to all the Planets in general, so likewise they vary in proportion one to another, for some of them are of slower motion, some of more swift, according to their distance from their Centers, and the Circumference of their Spheres in which they move.

The Signs are so many Constellations placed upon a great Circle of the Sphere, which for distinction sake do take denomination of such Creatures, as they represent in Form or Nature.

They are in number 12, each containing 30 degrees in Longitude, the whole Circle containing 360 degrees, but in this respect they are to be considered two ways, viz. either in respect of their division upon the Ecliptick, or in their proper Constellations.

They

Small 1688.

They are reckoned in the Ecliptick from the Vernal Equinoctial or beginning of *Aries*, which the point to which when a Planet comes he hath an Equal Arch of Day and Night, and when the Sun or Earth comes to that point, Days and Nights are of equal length, but the Constellations as they have a different beginning, so they have a various and unequal division, so that the first Zodiacal Constellation in this Age, begins about the 28 degree of the first Sign, viz. γ , and so they annually make their progression as aforesaid, viz. 1 deg. and 23' in 100 Years.

The 12 Signs are appropriated to the 12 Months of the Year, for that the Sun every Month passeth through one Sign, viz. 30 degrees, and such a Month is called a Solar Month, and thus are they divided also into four parts, answering to the four Quarters of the Year, and the four divisions of Man's Age.

γ , δ , Π , are appropriated to the Spring Quarter, beginning at γ the first Sign, and in this our age attributed to the first Month of the Year, viz. *March*, and so the other two Signs to the other two Months of *April* and *May*; as to Man's Age, this first division both of Signs and Quarters is attributed to, and hath consignification with our Youth.

ζ , η , ν , are appropriated to the Summer Quarter, viz. *June*, *July*, and *August*, and in Man's Age to manhood.

π , ρ , τ , are appropriated to the Autumnal Quarter, viz. the Months of *September*, *October*, *November*; and to the declining age of Man.

υ , ω , χ , are appropriated to the Winter Quarter, and the Months of *December*, *January*, and *February*, and to the old and last Age of Man.

The Signs are also divided into four Triplicities, answering to the four Qualities, and the several Temperatures, Humours, and Complexions in Man.

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V, ♈, ^{signific} are of the Fiery Trigon; hot, dry, and Cholerick.

♄, ♎, ♏, are of the Earthy Trigon, cold, dry, and Melancholly.

♊, ♋, ♌, are of the Airy Trigon; hot, moist, and Sanguine.

♐, ♑, ♒, are of the Watry Trigon; cold and moist, and do represent the Phlegmatick Humour or Complexion.

They are again divided into Moveable, Fixed, and Common.

Moveable are **V, ♈, ♋, ♌,** so called, because they signifie more sudden alteration, and are more manifest in operation: hence it is that the Sun entering into these Signs doth divide the four Seasons of the Year as aforesaid, and suddenly manifest the change of the Air, &c. according to the season; and so in other operations of the other Planets, for which cause these Signs are most properly called the most efficacious and principle Signs or parts of the Circle.

Fixed Signs are **♄, ♎, ♏, ♐, ♑, ♒,** so termed, because what is signified in and by them is more durable and fixed, and the season inclines more to its own property generally, they are less principle as being succedent to the former.

Common Signs are **♊, ♋, ♌, ♍, ♎, ♏,** which are cadent from the Equinoctial and Tropical Signs; and consequently of least signification; they are termed Common, for that they partake of the nature of the precedent and subsequent Signs, they signifie many relapses and sudden and contrary mutations, &c.

The Signs are also divided into Humane and Bestial.

Humane Signs are **♊, ♋, ♌, ♍, ♎, ♏,** and the first part of **♐,** which as they represent Humane Creatures, so have they most signification upon all Humane Actions, and in particular upon Man.

Bestial

Bestial Signs are ♈, ♉, ♊, ♋, and last part of ♌, as having signification on such Creatures as they represent in particular, ♎ and ♏ represent and have most signification on the Waters, and such things as are contained in them, as Fish, Navigable Affairs, &c. ♍ represents Serpents and Creeping Things, Locusts, all manner of treachery and fraud, &c.

The Signs are likewise said to have respect to the several quarters or parts of the World, either in regard of their declination, or by a certain congruence one to the other :

By their declination they are accounted Septentrional or Northern, as ♈, ♉, ♊, ♎, ♏, ♍, are so accounted, because their declination is north from the Equinoctial : or Meridional or Southern, as ♋, ♌, ♍, ♎, ♏, ♉, which decline southward.

In regard of their Congruity one with another, ♈, ♏, ♌, are said to respect the Oriental Parts, because ♈ having no declination from the Equinox at the beginning doth chiefly respect the East, and ♏ and ♌ being Signs of the same Triplicity, are attributed to the same Quarter, though one have great north declination, and the other south. So likewise ♉ denotes such parts as lie south, because of the same Trigon with ♎ whose Tropical Point is the angle of greatest declination southward, yet the declination of ♉ is north, and in that respect called otherwise a northern Sign, and so much for the Signs.

The Planets (as was before noted) or wandering Stars are different from those termed Fixed, not onely in motion, but also in regard of their Essential Qualities ; for the Fixed Stars are nearer the Matter of the Sun, whose Light also is Essentially in, and inherent to themselves, as the Light of the Sun is, and as the Fixed Stars are in Substance and Quality similar and analogical to the Sun, so are the Planets or wandering Stars to our Earth, which shine by that Light which they

they borrow from the Sun who is the Center both of their Light and Motion, differing no more from the Quality of our Earth, than the Mettalls of the said Earth, differ one from another.

The Number of the Planets are generally accounted seven, viz. Saturn ♄, Jupiter ♃, Mars ♂, Sol ☉, Venus ♀, Mercury ☿, Luna ☾.

These Planets have more powerfull Influence upon the Earth, and those things produced from, and contained in it, than the Fixed Stars, as well for this Reason, viz. that they Sympathize in Nature with her, as in respect of their propinquity to the Earth, which is the general and common Reason given for their more manifest Power and Operation, for although the Fixed Stars are of a vast and incomprehensible distance, insomuch as they are void of all sensible parallax, yet in regard of their excess in magnitude to that of the Planets (as by their visible appearances is manifest, who notwithstanding their distance appear as it were equal in magnitude) they must necessarily have as powerfull operation upon us, as the Planets have, did they sympathize with our Earth as the Planets do, whether it be by Magnetism, or an active influx in themselves; yet in regard it often happens, that the Planets are augmented or diminished in their operations by their propinquity to the Fixed Stars, it hath been observed that either by their colour or experienced virtues and operations, they have participated with the Planets in signification, though more weakly and in somewhat a different sense, so that by the variety of their Influence they are said to be of the nature of such a Planet, and sometimes of two Planets.

Not onely the difference of the Planets from those Stars called Fixed is to be considered, but also the difference among themselves, for according to their various Qualities, they produce various Effects; from whence some are termed, Fortunes and Benevolent, others

others Infortunes and Malevolent, and some Indifferent.

The Benevolent and Fortunate Planets are ♄ and ♀, and the good Aspects of the Sun.

The Infortunes and Malevolent are ☿ and ♂, and the bad Aspects of the Sun.

Those Planets that are of an indifferent nature, are ♁ and the Moon.

And this diversity of operation proceeds from the agreement or contrariety of nature and quality, to that of our Earth, even as the Vegetables of the Earth do accord with, or are contrary in nature one to the other; and so ☿ by reason of his excess in Cold, and ♂ in respect of his excess in Heat, are said to be infortunate to us, as exceeding in those principal qualities, so that generally they become destructive to nature in its actions and passions: and hence it is also that ♄ and ♀ are said to be benevolent and friendly to our natures, because they sympathize nearer with the nature of our Earth, and all its productions, not exceeding in any one quality by which nature becomes corrupted and destroyed.

♁ and the Moon are said to be indifferent as much for the reason aforesaid, as by reason of their affinity to, and frequent variation from other Planets, for as it is the property of ♁ to be subject to such mutation in his influence by reason of his access to, and coherence with the other Planets by body or Aspect.

So the Moon by reason of her propinquity to the Earth as its proper attendant (respecting the same for her proper center) doth more easily receive impression from, and convey the influence of all the other Planets to us, (by which they become more significant and apparent in their operations) though she in respect of her own essential quality, exceeds our Earth in humidity.

So the Sun, as he is the Center (more especially) of the motion of all the Planets, it is manifest that by his good or bad Aspects, he should be either very friendly to Nature in the one, and as prejudicial in the other.

These are some of the several Significations of the Planets as they are simply considered by themselves, but their influences are intended or remitted by their mixtures one with another, as also by their various Positions and Aspects.

As by their Position in Signs in which they are said to have most principal respect, as in their own proper Houses, and also in respect of their propinquity, or oblique and direct positions to Earth, being far more powerfull in influence or operation by so much as their influential beams are directly projected.

The most principal Aspects of the Planets among themselves, are these four, viz. Sextile ✱, Quartile ☐, Trine △, Opposition ♂.

The ♀ Conjunction, improperly called an Aspect, as it is the corporal union of their Beams, is of most power among other Configurations, and of the infortunate Planets is very malevolent, of the fortunate benevolent, of the fortunes with the infortunes, is good to the bad Planets, but evil to the good; and note that ♀ and ☿ make but 10 Conjunctions in one Trigon, continuing in the same near 200 Years, that is a Conjunction once in 20 Years, and compleats a revolution of all the Trigons once in a little less than 800 Years, which is very observable, there being but seven revolutions compleated since the Creation, after every one of which, something notable has happened in the World.

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A plain and easie Table shewing the true Interest due upon any Sum of Money from five Shillings to an Hundred Pounds, for a Year or under, after the rate of Six Pounds in the Hundred.

		1 month			3 months			6 months			9 months			A Year.		
		sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.
Shill.	5	0	0	10	0	0	30	0	1	30	0	1	20	0	3	2
	10	0	0	20	0	1	30	0	3	20	0	5	00	0	7	0
	15	0	0	30	0	2	40	0	5	10	0	8	20	0	10	2
Pounds.	1	0	1	00	0	3	20	0	7	00	0	10	21	2	1	
	2	0	2	10	0	7	01	2	11	9	12	4	2			
	3	0	3	20	0	10	21	9	12	7	33	6	3			
	4	0	4	31	2	13	4	23	6	34	9	0				
	5	0	6	01	6	03	0	04	6	06	0	0				
	6	0	7	01	9	23	7	05	4	27	2	1				
	7	0	8	12	1	04	2	16	3	18	4	2				
	8	0	9	22	4	24	9	17	1	39	6	3				
	9	0	10	32	8	15	4	28	0	310	9	0				
Tens of Pounds.		po.	sh.	p.	po.	sh.	p.	po.	sh.	p.	po.	sh.	p.	po.	sh.	p.
	10	0	1	00	0	3	00	0	6	00	0	9	00	0	12	0
	20	0	2	00	0	6	00	0	12	00	0	18	01	0	4	0
	30	0	3	00	0	9	00	0	18	01	0	7	01	0	16	0
	40	0	4	00	0	12	01	0	4	01	0	16	02	0	8	0
	50	0	5	00	0	15	01	0	10	02	0	5	03	0	0	0
	60	0	6	00	0	18	01	0	16	02	0	14	03	0	12	0
	70	0	7	01	0	1	02	0	2	03	0	3	04	0	4	0
	80	0	8	01	0	4	02	0	8	03	0	12	04	0	16	0
	90	0	9	01	0	7	02	0	14	04	0	1	05	0	8	0
	100	0	10	01	0	10	03	0	0	04	0	10	06	0	0	0

Find the Principal in the first Column, and in the other you have the Interest due for one, three, six, nine, or twelve months.

Of

Of Weights and Measures.

Of Troy Weight.

24 Grains	} make {	1 Peny w.
20 Peny weig.		1 Ounce.
12 Ounces		1 pou. Troy

Apothecaries Weight.

20 Grains	} make {	1 Scruple.
3 Scruples		1 Dram.
8 Drams		1 Ounce.
12 Ounces	} make {	1 Pound.

Of *Averdupois* Weight, a Pound whereof is equal to 14 Ounces, 12 peny weight Troy; by which Weight is weighed any thing which beareth the name of Garbel in this kind of weight

16 Drams	} make {	an Ounce.
16 Ounces		a Pound.

28 Pound	} make {	1 Quarter.
4 Quarters		1 H or 112
20 Hundreds		1 Tun.

Of Liquid Measure.

2 Pints	} make {	1 Quart.
2 Quarts		1 Pottle.
2 Pottles		1 Gallon
8 Gallons		1 Firkin of Ale, Sope, Herrings.
9 Gallons		1 Firkin of Beer.
10 Gall. $\frac{1}{2}$		1 Firkin of Salmon or Eels.
2 Firkins		1 Kilderkin
2 Kilderkins		1 Barrel.
42 Gallons		1 Tierce of Wine.
63 Gallons		1 Hoghead
2 Hogheads		1 pipe, Butt.

Dry Measure.

2 Gallons	} make {	1 Peck.
4 Pecks		1 Bushel land measure.
5 Pecks		1 Bushel wat. measure.
8 Bushels		1 Quarter.
4 Quarters		1 Chalden.
5 Quarters	} make {	1 Wey.

Long Measure.

3 Barly Corns	} make {	1 Inch.
12 Inches		1 foot.
3 feet		1 Yard.
3 feet 9 Inch.		1 Ell.
6 feet		1 fathom.
5 yards and $\frac{1}{2}$		1 Pole.
40 Poles		1 furlong.
8 furlongs		1 Eng. mile

Land Measure.

1 pole in breadth and 40 in length make a Rood of Land.
4 Roods make an Acre, which contains 160 square pole.

Cloath Measure.

4 Nails	} make {	1 Quarter.
4 Quarters		1 Yard.
5 Quarters		1 Ell.
3 Quarters		1 Ell Flemish

Swallow 1688.

A Table shewing how many Inches in Length makes one Foot of Timber, according to the Compaſs of any Round Piece of Timber.

The Compaſs of the Tree in Inches.

Com.	In.	parts.	Com.	In.	parts.	Com.	In.	parts.
10	217	15	40	13	572	70	4	432
11	179	46	41	12	916	71	4	308
12	150	80	42	12	310	72	4	198
13	128	49	43	11	744	73	4	75
14	110	79	44	11	211	74	3	965
15	94	312	45	10	723	75	3	861
16	84	822	46	10	262	76	3	760
17	75	137	47	9	830	77	3	663
18	67	20	48	9	425	78	3	569
19	60	151	49	9	44	79	3	479
20	54	286	50	8	686	80	3	393
21	49	228	51	8	349	81	3	310
22	44	865	52	8	30	82	3	230
23	40	904	53	7	730	83	3	152
24	37	690	54	7	447	84	3	78
25	34	743	55	7	178	85	3	6
26	32	122	56	6	924	86	2	936
27	29	787	57	6	684	87	2	869
28	27	697	58	6	455	88	2	804
29	25	820	59	6	238	89	2	742
30	24	127	60	6	30	90	2	681
31	22	596	61	5	836	91	2	622
32	21	206	62	5	649	92	2	566
33	19	936	63	5	471	93	2	511
34	18	784	64	5	301	94	2	458
35	17	736	65	5	140	95	2	406
36	16	755	66	4	985	96	2	356
37	15	862	67	4	837	97	2	307
38	15	38	68	4	696	98	2	261
39	14	276	69	4	561	99	2	216
						100	2	171

The use of the Table.

First girt the Piece about, then look the length of that Girt under the title Com. and against it is the length of a Foot solid in Inches and parts of Inches.

Example.

Suppose a piece of Timber be 80 Inches about, then look 80 under the title Com. and against it in the next Column toward the right hand is 3 Inches and 393 decimal parts of an Inch, (that is 393 thousand parts, supposing the Inch to be divided into 1000 parts) for the length of a Foot.

For Square Timber.

Divide always 1728. (the Cubick inches in a foot solid) by the Content at the end, and the Quotient shews the length of a foot solid in Inches.

Example.

Let a piece of Timber be 12 Inches broad and 10 Inches deep at the end, and then the Content will be 120 Inches, which dividing 1728 the Quotient is 14 Inches, and $\frac{48}{120}$ parts for the length of a foot solid.

For Boards.

Divide always 144 (the Inches in a foot square) by the breadth, and the Quotient shews the length of a foot square in Inches.

Example.

If a board be 16 Inches broad, then 144 divided by 16 the Quotient is 9 Inches for the length of a foot according to that breadth.

For Circles.

If the Circumference be given, multiply it by it self, and then by 7, the last product divide by 88, and the Quotient shews the Content: if the Diameter be only given, multiply it by it self, and then by 11 the last product divide by 14 and the Quotient shews the Content.

A Table of the hour and minute of Sun-rising every second day.

days	Januar.		Februa.		March		April		May		June	
	ho.	mi.	ho.	mi.	ho.	mi.	ho.	mi.	ho.	mi.	ho.	mi.
2	8	4	7	15	6	16	5	14	4	21	3	46
4	8	1	7	11	6	12	5	10	4	17	3	45
6	7	58	7	7	6	8	5	6	4	14	3	44
8	7	56	7	3	6	4	5	2	4	11	3	43
10	7	53	6	57	6	0	4	58	4	7	3	43
12	7	51	6	53	5	56	4	54	4	5	3	43
14	7	48	6	50	5	52	4	50	4	2	3	43
16	7	45	6	46	5	48	4	46	4	0	3	44
18	7	43	6	42	5	44	4	43	3	58	3	45
20	7	40	6	38	5	40	4	39	3	56	3	46
22	7	37	6	34	5	36	4	35	3	54	3	47
24	7	33	6	30	5	32	4	32	3	52	3	48
26	7	29	6	26	5	29	4	29	3	50	3	49
28	7	25	6	22	5	25	4	25	3	48	3	50
30	7	21	0	0	5	21	4	22	3	47	3	52
days	July		August		sepsem.		Octob.		Novē.		Decem.	
	ho.	mi.	ho.	mi.	ho.	mi.	ho.	mi.	ho.	mi.	ho.	mi.
2	3	54	4	39	5	39	6	41	7	37	8	15
4	3	56	4	43	5	42	6	45	7	40	8	15
6	3	58	4	46	5	46	6	49	7	44	8	16
8	4	0	4	50	5	50	6	52	7	47	8	17
10	4	3	4	54	5	54	6	56	7	51	8	17
12	4	6	4	58	5	58	7	0	7	54	8	17
14	4	8	5	2	6	2	7	4	7	57	8	17
16	4	11	5	6	6	6	7	8	7	59	8	16
18	4	15	5	10	6	11	7	12	8	1	8	15
20	4	18	5	14	6	15	7	15	8	3	8	15
22	4	21	5	18	6	20	7	19	8	5	8	14
24	4	24	5	21	6	24	7	22	8	7	8	12
26	4	27	5	25	6	28	7	25	8	9	8	10
28	4	30	5	29	6	32	7	29	8	11	8	9
30	4	34	5	32	6	36	7	32	8	13	8	7

Seek the day on the side; and right against it, in every month, you have the hour and minute of Sun-rising.

Look how many minutes the Sun rises after 3, 4, 5, 6, 7, 8.

So many he sets before 9, 8, 7, 6, 5, 4.

C

A

A Table of Annuities and Reversions.

What 1 pound to
be paid any num-
ber of years hence,
under 31, is worth
in ready money.

What 1^{lb} Annuity
to continue any time
under 31 years is
worth in ready mo-
ney at 6 per cent.

What 1 pound will
amount to at any
time under 21 year:
reckoning Interest
upon Interest.

	sh.	d.	q.	lb.	sh.	d.	q.	lb.	sh.	d.	q.
1	18	10	2	0	18	10	2	1	1	2	2
2	17	9	2	1	16	8	0	1	2	5	2
3	16	9	2	2	13	5	7	1	3	9	3
4	15	10	0	3	9	3	2	1	5	3	0
5	14	11	1	4	4	3	0	1	6	9	0
6	14	1	1	4	18	4	1	1	8	4	2
7	13	3	2	5	11	7	3	1	10	0	3
8	12	6	2	6	4	2	1	1	11	10	2
9	11	10	0	6	16	0	1	1	13	9	2
10	11	2	0	7	7	2	1	1	15	9	3
11	10	6	2	7	17	8	3	1	17	11	2
12	9	11	1	8	7	8	0	2	0	3	0
13	9	4	2	8	17	0	2	2	2	7	3
14	8	10	0	9	5	10	3	2	5	2	2
15	8	4	0	9	14	3	0	2	7	11	1
16	7	10	2	10	2	1	2	2	10	9	2
17	7	5	0	10	9	6	2	2	13	10	2
18	7	0	0	11	16	6	2	3	17	1	0
19	6	7	1	11	3	2	0	3	0	6	0
20	6	2	3	11	9	4	3	3	4	1	3
21	5	10	2	11	15	3	1	3	7	11	3
22	5	6	2	12	0	10	0				
23	5	2	3	12	6	0	3				
24	4	11	1	12	11	0	0				
25	4	7	2	12	15	8	0				
26	4	4	3	13	0	0	3				
27	4	1	3	13	4	2	2				
28	3	11	0	13	8	1	3				
29	3	9	1	13	11	9	2				
30	3	5	3	13	15	3	2				

By this Table you
may readily find the
increase of any other
sum for such a num-
ber of years: for if 1^l
come to so much
then such suppose
5^l will come to 5
times as much &c.

The

Swallow 1688.

The use of the Tables.

THe first Table shewing the decrease of one Pound yearly at 6 per cent. may be used in buying Reversions, &c. As suppose a parcel of Land or house or the like, whose fee simple or real worth is 200^{lb}, and it be Mortgaged or Leased out for 20 years, then what is the Reversion thereof after that 20 years worth in ready money? for answer, I look against 20 years and find that the Reversion of one pound after 20 years is worth but 6th 2^d 3^q, then if 1^{lb} be worth 6th 2^d 3^q, 200^{lb} will be worth 200 times as much, which will be 62^{lb} 5th 10^d for the value of the Reversion required.

The second Table may be used in buying of Leases, &c. as suppose I am to buy a Lease of 10^{lb} per annum, for 21 years, what ready money may I give at the rate of 6^{lb} per cent. per ann. for answer, I look against 21 years and find that 1^{lb} annuity to continue 21 years is worth in ready money 11^{lb} 15th 3^d 1^q, then I say if 1^{lb} annuity for 21 years be worth 11^{lb} 15th 3^d 1^q, then 10^{lb} annuity for the same time will be worth 10 times as much, which will be 117^{lb} 12th 8^d 2^q, for the value of the Lease required.

The third Table may be used in putting out money for a certain time at 6^{lb} per cent. per ann. as suppose 20^{lb} be let out for 7 years, what will it amount to in that time, reckoning Interest upon Interest? For Answer, I look against 7 years, and find that 1^{lb} will amount to in that time 1^{lb} 10th 0^d 3^q, then I say 20^{lb} will amount to 20 times as much, which will be 30^{lb} 1th 3^d.

The use of the following Table is plain and easie, for suppose I am to find *Easter* this present year 1688. then having found the Golden Number 17, and Dominical Letter G at the bottom of the Table, I look under the Dominical Letter G at the top, and right against the Golden Number 17 at the left hand, and in the Common angle of meeting I find *April 15. for Easter Day.*

Swallow 1688.

A Table shewing how to find Easter for ever
by the help of the Golden Number
and Dominical Letter.

G.N.	A	B	C	D	E	F	G
i	Apr. 9	10	11	12	5	7	8
ii	Mar. 26	17	18	19	30	31	apr. 1
iii	Apr. 16	17	18	19	20	14	15
iv	Apr. 9	3	4	5	6	7	8
v	Mar. 26	17	18	19	23	24	25
vi	Apr. 16	17	11	12	13	14	25
vii	Apr. 2	3	4	5	6	mar. 31	apr. 1
viii	Apr. 23	24	25	19	20	21	22
ix	Apr. 9	10	11	12	13	14	8
x	Apr. 2	3	mar. 28	29	30	31	apr. 1
xi	Apr. 16	17	18	19	20	21	22
xii	Apr. 9	10	11	5	6	7	8
xiii	Mar. 26	17	18	19	30	31	25
xiv	Apr. 16	17	18	19	13	14	15
xv	Apr. 2	3	4	5	6	7	8
xvi	Mar. 26	17	18	21	23	24	25
xvii	Apr. 16	10	11	12	13	14	15
xviii	Apr. 2	3	4	5	mar. 20	31	apr. 1
xix	Apr. 23	24	18	19	20	21	22

Sec. of our Lord	1684	1685	1686	1687	1688	1689	1690
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G.N.	13	14	15	16	17	18	19
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D.Lc.	FE	D	C	B	AG	F	E
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The

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The Names of the principal Fairs in *England*,
as they have heretofore been set forth by others,
and are now Corrected and continued for the
common good.

January.

The 5 day at Hicetford in Lancashire, the 6 day at Salis-
bury, Tuesday after at Melton-Mowbray, the Thurs-
day after at Banbury: the third Tuesday in January at
Potton: the 25 at Gravesend, Bristol, Churchinford, Nor-
hallerton in Yorkshire every Wednesday from Christ-
mas till June.

February.

The 1 day at Bromley in Lancashire, the 2 at Reading
in Barkshire, at Maidston, Bicklesworth, Bicklesfield, Bath,
Lyn, Bugworth: the 6 day at Stafford for 6 days: the
14 at Oundle, Faversham: 24 at Henley upon Thames,
Baldock: On Ashwednesday at Royston, Dunstable,
Eaton, Tamworth, Tunbridg, Lichfield, Exeter, Ciceter.
The first Thursday in Lent at Banbury: the 26 at Stanford
an Horse Fair.

March.

The 3 day at Bromel-brakes in Norfolk, 4 at Bedford, at
Oakham: 12 at Alsome in Norfolk, Sudbury, Wooburn,
Stanford, at Wye: 13 at Bodwin in Cornwall: 20 at
Durham, Alesbury: Munday before our Lady day at Ken-
dal, at Wisbich, 25 at Huntington, Northampton, Malden,
Ashwel in Hartfordshire, Newcastle, Oney, S. Albans:
Midlent Saturday at Saffron-walden: Palm Sunday-eve
at Wisbich, Worcester, Pomfret, on Goodfriday at Nor-
wich, the Tuesday before Easter at Potton.

April.

Easter Munday at Oney in Bedfordshire, Gainsborough.
Easter Tuesday at Dainty in Northamptonsh. Godman-
chester, Schole in Norfolk, S. Edmunds-bury. On Wed-
nesday at Wellingborough in Northamptonsh. On Friday

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In the same week at Darby. On Saturday at Bicklesworth
a day at Hitchin, at Rochford, Northfleet: 5 at Walling-
ford: 7 at Derby, 9 at Billingsworth, Bicklesworth: the
22 at Stabford, 23 at Ipswich, Harbin in Norfolk, North-
ampton, Sapfar in Hartfordshire, Charing, Hinningham
Tamworth, Bury in Lancashire. S' Pombs in Cornwall
Amptill, Chichester, Engfield, Gilford, Bishops-
Hatfield: the 25 at Buckingham, at Bourn in Lincoln, at
Colebrook, Dunmow in Essex, Darby, Oakham in Rut-
landshire: the 29 at Tenderden in Kent, Cleet, 30 at Beverly
a week together.

May.

The 1 day at Swaffam, Haveril in Essex, Laytonbuzzard
in Huntingdonsh. Rippon in Yorks. Reading, Maidstone,
Chelmsford, Leicester, Litchfield, Lexfield in Suffolk,
Stow, Stansted, Tuxford in the Clay, the 3 day at Elstow
in Bedfordsh, Noneaton in Warwicksh. Thetford in Nor-
folk, Waltham Abby, Hinningham, Rochdale, Bramyard,
the 6 at Almesbury, at Ashford, 7 at Newton in Lanca-
shire, Beverly, Oxford. Bath: the 8 at Maidstone: the 19
at Rochester, Dunstable, Magfield in Suffolk. On Rog-
ation Munday at Reach. On Ascension day at Thaxted, Be-
verly, Rippon, Sudminster, Bishopstratford, S. Neots,
Wickham in Lancashire, Middlewich in Cheshire,
Chappel-Frith in Darbish. On Whitfun-even at Skipton
in Craven. On Whitfun-Munday at S. Ives, Rygate in
Surry, Bicklesworth, Bradford, Agmunsham in Bucking-
hamsh. On Whitfun-Tuesday at Newmarket. On Wed-
nesday at Royton. Thursday at Oundle in Northamptonsh.
26 at Lenham, 29 at Crainbrook.

June.

Trinity-even at Rowel, Kendal. On Corpus Christiday
at Banbury, Bishopstratford, S. Neots, Coventry, Newbu-
ry. The 3 at Alesbury: 9 at Maidstone. 11 at Breme in
Norfolk, Bardfield in Essex, 17 at Hadstock, 23 at S. Al-
bans, Deerham in Norfolk, Shrewsbury, 24 at Halsou in
Suffolk, Barnwel by Cambridge, Bedford, Colchester,
Hartford,

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Hartford, Leicester, Rumford, Reading, Windsor, Hallifax, York, Beverly, Haslingden, 26 at Bristol, Darby, 27 at Burton on Trent, Folfstone. 28 at S. Pombs in Cornw, 29 at Peterborough, Ashwel, Sudbury, Stebbing in Essex. Bennington in Hartfordshire.

July.

The first Tuesday at Potton. The 1, 2, 3 days at Conlestone in Cheshire, 7 at Royston, Burntwood. The Munday after at Fodringham, at Canterbury: the 11 at Partney, 17 at Stevenage: 20 at Uxbridge, Coolidge, Woodstock: the 22 at Ickleton, Bicklesworth, Norwich, Colchester, Newark upon Trent; 25 at Audley-end by Walden, Reading, Baldock, Darby, Dover, Erith, Ipswich, Stamford.

August.

The first day at Bedford, S. Neots, Dunstable, Feverham, Wisbich, Bicklesworth, Thaxted: the 6 at Peterborough: the 10 at Blackmore, Harply in Norfolk, S. Ives, Bedford, Banbury, Farnham, Brainford, Owndle: the 15 at Cambridge, Huntington, Dunmow, Luton, Northampton: the 24 at London, Sudbury, Norwich, Oxford, Northallerton, Dover, Beggers-bush, Burton. the 28 at Ashford, Daintry: the 29 at Halsen in Suffolk, Harlow-Bush in Essex, Watford.

September.

The first day at S. Giles in the Bush. On Thursday and Friday before the 8 day at Sandback in Cheshire. 7, 8, 9, 10 at Woodbury-hill in Dorsetshire, 7 at Ware. 8 at Huntington, Bury in Lancashire, Partney, Wakefield, Northampton, Sturbridge fair begins: the 11 at Wolfpit in Suff. 14 at Rippon, Waltham-Abby, Chesterfield in Darbshire, Richmond: the 21 at Marlborough, Bedford, Baldock, S. Edmundsbury, Holden in Holderness, Braintry, Brackly-Maiden, Malden, Mildnal: the 29 at S. Ives, Basingstoke, Marketdeeping, Shelford in Bedfordsh. Bishopstortford, Malden, Stow in Lincolnsh. S. Albans, Canterbury, Leicester, Newbury, Westchester, Weymer for 7 days: Thursday after at Banbury.

October.

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October.

The 1 day at Salisbury, the 6 at Havent in Hampsh. Ma
Rone, Coolidge, Gayworth by Lyn. S. Faiths by Ne
wich, the 8 at Bishopstratford, Harborough, 9 Gainsb
rough, the 13 at Windsor, Colchester, Gravesend, Hitch
Royton: the Tuesday before S. Luke at Potton: 18
Ely, Bishop Hatfield, Barnet, Banbury, Thirst, Burton
Trent, Wellinborough: the 21 at Saffron Walden, Cove
try: the 23 at Bickleworth, 28 at Newmarket, Hartfor
Oxford, Difs, Wakefield, Stamford, Richdale in Lanc
shire.

November.

The 1 day at Chelmsford, 2 at Epping, Kingston
Thames, Padamhaston in Suffolk, 6 at Newportpond, Be
ford, Hartford, 11 at Ludden in Norfolk, Lenton in Nottin
hamshire, Hempton, Fockingham Bridgestock, Marlbo
rough: the 17 at Spalding in Lincolnsh. Lincoln, Harlot
Hide, Northampton: the 19 at Horsham in Kent: the 20
S. Edmundsbury, Ingerston in Essex, Heath, the 23 at Sand
wich, the 30 at Baldock. Bareford, Kolingborough, Ma
denhead, Warrington, Rochester, Wakefield, York.

December.

The first day at Tutbury: the 5 at Pluckley: the 9
8. Neots, at Woodstock, Exeter, Spalding, Norwich
Cheshire. Seven-oak in Kent, Arundel, Grantham: the
at Sandhurst, the 8 at Northampton, Clitheral in Lanc
shire, Huntington, Leicester, at Malpas in Cheshire: the
at Canterbury, Salisbury.

There is lately published *Theſaurus Lingue Sanſæ Reſeratus*, &c.
being a Concordantial Hebrew Lexicon, or Dictionary; in
which all the Hebrew Lexicons are ſuccinctly comprehended, and
the whole Hebrew Concordance of every Word of the Hebrew Bible
grammatically reſolved, &c.

A Full, Large, and General *Phraſe-Book*; Comprehending, what
ſoever is Neceſſary, and moſt Uſeful, in all other *Phraſeologi-
cal-Books*, (hitherto, here, published;) and Methodically Digetted;
for the more ſpeedy and Proſperous Progreſs of Students in their
Humanity Studies. Both Published by William Robertſon, A. M.
and ſold at the Bible on Ludgate-hill, L O N D O N.

F I N I S.